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AMSAT NEWS SERVICE
ANS-325

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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SB SAT @ AMSAT $ANS-325.01
ANS-325 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 325.01
>From AMSAT HQ KENSINGTON, MD.
November 20, 2016
To All RADIO AMATEURS
BID: $ANS-325.01

ARISS-I Celebrates 20th Anniversary and Plans for the Future of Amateur Radio in Human Spaceflight

The ARISS-I delegates met this week in Houston, Texas at the ISS Conference Facility to celebrate 20 years of Amateur Radio on the International Space Station (ARISS). Prior to and during the conference, over 50 delegates and guests from Russia, Japan, Italy, German, the UK, and North America had the option for a behind the scenes tour of Johnson Space Center. The conference also had special guest visits from Astronauts Mike Fincke, Ken Cameron, and Cosmonaut Aleksandr Poleshchuk.

The delegates and guests also were able to tour the W5RRR Johnson Space Center Amateur Radio Club and utilize the club's amateur radio repeater.

The three main tracks of the conference were covered in two tracks per day to maximize the short time span of the 4 day meeting with the

international delegates. Delegates who could not attend in person utilized video conferencing. ARISS Benefactors such as SCaN (Space Communications and Navigation office at NASA-JSC) and CASIS (Center for the Advancement of Science in Space) also attended in-person and online.

The three main tracks were Sustainability & Funding, Hardware Development, and Educational Impact. Plenary Sessions were held in the mornings on selected topics of great interest to all attendees. Members also met informally at Ken Ransom's house (N5VHO) for a BBQ - "Texas Style." The 20th Anniversary Dinner was held overlooking Galveston Bay. Much work, many thanks, and a wonderful spirit of international camaraderie was evident by the end of the week at this International Face-to-Face meeting.

The future of Amateur Radio in Human Space was discussed heavily and many tasks were undertaken by the delegations to report back or develop a response. Summarizing one comment at the end of the meeting, "This week, just as with any ARISS contact, as we approach LOS (loss of signal), I know it's coming soon, but I don't want it to end."

The international attendees expressed great appreciation for the 20th Anniversary ARISS Face-to-Face Meeting organizing committee lead by Frank Bauer, KA3HDO, ARISS International Chair and AMSAT-NA Vice President, Human Spaceflight, Rosalie White, K1STO, ARISS Delegate, Debra Johnson, K1DMJ, ARRL, Mark Steiner, K3MS, ARISS, and Ms. Janet Bauer.

Next year's ARISS International Face-to-Face Meeting is schedule for September 2017 in Rome, Italy.

[ANS thanks ARISS for the above information]

AMSAT Space Symposium at Sea a Success!

The 2016 AMSAT Space Symposium and General Meeting held aboard the Carnival Liberty in the Gulf of Mexico is now history! Approximately 70 AMSAT members as well as family and friends from the United States, Canada, UK, Germany, Switzerland, Israel, and the Azores enjoyed the presentations, activities, and camaraderie during the four day cruise, which departed from Galveston, Texas and included a port call at Progreso, Mexico. Look for more details about the Symposium presentations and activities in the next issue of The AMSAT Journal.

Due to a lack of internet bandwidth, live audio of the 2016 AMSAT General Meeting was not available via Echolink. Please see the following slides presented during the General Meeting by AMSAT President Barry Baines, WD4ASW, for an update on the status of AMSAT: http://tinyurl.com/ANS325-AnnualMeeting

For selected photos see this post on the AMSAT website: http://www.amsat.org/?p=5664

[ANS thanks Paul N8HM for the above information]

NEON - NASA Educators Online Network Free STEM Education Webinars

ANNOUNCEMENTS

Free STEM Education Webinars From NASA Educator Professional Development

Audience: In-service, Pre-service, Home School and Informal Educators

The NASA STEM Educator Professional Development Collaborative (EPDC) at Texas State University is presenting a series of free webinars open to all educators. Join NASA education specialists to learn about activities, lesson plans, educator guides and resources that bring NASA into your classroom. Registration is required to participate. To register, simply click on the link provided beneath the webinar description.

November 21, 2016, at 5:00 p.m. ET: NASA Technology in Your Classroom: Images and Data (Grades 4-10) - Explore NASA resources for using images and data in the classroom. These resources can be used to engage students, illustrate concepts, and develop educational exhibits, programs or products. Learn about the latest science discoveries and more at http://nasawavelength.org/data-and-images. Register online to participate. https://www.etouches.com/203264

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November 21, 2016, at 7:00 p.m. ET: Astrobiology and the Origin of Life (Grades 6-12) - Learn how NASA has turned the search for alien life from science fiction to a quickly growing research field. Topics in earth and space science linked to biology will help us understand the most current theories for how life came to be here on Earth and where we could find it next. Classroom activities fit for numerous grade levels will put this exploration into the hands of our next generation of scientists! Register online to participate. https://www.etouches.com/198801

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November 22, 2016, at 4:00 p.m. ET: NASA Technology in Your Classroom: NASA Apps for All Ages (Grades K-12) - NASA has over 50 FREE apps for educational use. Learn how to use and integrate some of the applications in the classroom setting. Virtual reality, 3-D exploration and NASA missions come alive with the use of these apps. Engage students on topics such as earth science, the solar system, robotics and space station research through the usage of technology apps. Register online to participate. https://www.etouches.com/202778

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For the NASA STEM Educator Professional Development webinar schedule, go to: http://www.txstate-epdc.net/events/

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SPACE EXPLORATION EDUCATORS CONFERENCE (SEEC)

February 9-11, 2017

at Space Center Houston

1601 NASA Pkwy, Houston, TX 77058

Experience three days of complete immersion into the out-of-this world adventure of space exploration!

This conference is for grades kindergarten to 12th – and not just for science teachers! Space Center Houston strives to use space to teach across the curriculum. The activities presented can be used for science, language arts, mathematics, history, and more.

Attend sessions hosted by the actual scientists and engineers working on exciting endeavors like the International Space Station and explorations of Mars and the planets beyond. Hear from the astronauts leading the charge in exploration! Come learn about the bold vision to send humans back to the Moon and off to Mars! Attend sessions presented by educators and receive ready to implement classroom ideas and experience minds-on, hands-on fun. Network with fellow educators, take back a multitude of cross-curriculum ideas and activities and earn 24 hours of continuing professional education credit.

For more information or to register, visit : http://spacecenterSEEC.org email seec(a)spacecenter.org or call (281) 244-2149.

[ANS thanks NEON for the above information]

Lunar Amateur Radio Satellites DSLWP-A1/A2

Mingchuan Wei BG2BHC reports DSLWP is a lunar formation flying mission for low frequency radio astronomy, amateur radio and education, consists of 2 microsatellites.

Developed by students at the Harbin Institute of Technology the amateur radio payload onboard DSLWP-A1 will provide telecommand uplink and telemetry / digital image downlink. An open telecommand is also designed to allow amateurs to send commands to take and download an image.

The satellites are 50x50x40 cm with a mass of about 45 kg and are 3-axis stabilized. Two linear polarization antennas are mounted along and normal to the flight direction.

The team proposes downlinks for A1 on 435.425 MHz and 436.425 MHz while downlinks for A2 would be 435.400 MHz and 436.400 MHz using 10K0F1DCN or 10K0F1DEN 250 bps GMSK with concatenated codes or JT65B.

Planning a launch into a 200 x 9000km lunar orbit in June 2018. Further info at http://lilacsat.hit.edu.cn/

IARU Amateur Satellite Frequency Coordination pages http://www.amsat.org.uk/iaru/

[ANS thanks Southgate ARN for the above information]

XW-1/HO-68 Restoration Work - Listening Reports Requested

China's professional space TT&C network has been monitoring XW-1

telemetry Since November 12 in an effort to restore its work. If anyone has heard the CW beacon signal at 435.790 MHz, Please contact Alan Kung, BA1DU, camsat (at) vip.163.com

[ANS thanks Alan BA1DU for the above information]

Jim Wilson, K5ND Earns Satellite VUCC

Congratulations to Jim Wilson, K5ND on earning his Satellite VUCC award for working 100 grids. At the same time, because so many grid expeditions were confirmed on LoTW, he also qualified for the VUCC endorsement sticker for 125 grids.

Jim wrote, "Thanks everyone for taking the time to enter your QSOs on Logbook of the World or to send me QSL cards in response to my own card. As I've mentioned before, it has been such a blast to work all these grids and to figure out how to work both the FM and linear satellites."

[ANS thanks JoAnne K9JKM for the above information]

ARISS News

+ A Successful contact was made between Col·legi Asuncion de Ntra. Sra., Barcelona, Spain and Astronaut Shane Kimbrough KE5HOD using Callsign NA1SS. The contact began 2016-11-17 08:25 UTC and lasted about nine and a half minutes. Contact was telebridge via W6SRJ. ARISS Mentor was Marcelo IKØUSO.

In 2016, Col·legi Asuncion de Ntra. Sra. is celebrating the 140th anniversary of the 1876 founding of the school.

The school has approximately 600 students of Kindergarden (from 3 to 6 years of age), Primary (6-12 years old) and Secondary (from 12 to 16 years old) and is located in Barcelona, in the Poblenou neighbourhood, belonging to Sant Martí district.

It was a very rewarding finish the anniversary by contacting with the International Space Station as the main activity of a set of Interdisciplinary Didactic Projects and multiple age level participation activities.

Col·legi Asuncion de Ntra. Sra's aim is to engage every student in these activities, which are not only STEM/STEAM related, but also cover geography, languages, history and others.

Upcoming ARISS Contact Schedule

Private Salesian High School named of St. Dominic Savio, Wroclaw, Poland, telebridge via W6SRJ
The ISS callsign is presently scheduled to be NA1SS
The scheduled astronaut is Shane Kimbrough KE5HOD
Contact is a go for: Fri 2016-11-25 11:12:47 UTC

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ARISS is always glad to receive listener reports for the above contacts.
ARISS thanks everyone in advance for their assistance. Feel free to send your reports to aj9n at amsat.org or aj9n at aol.com.

Listen for the ISS on the downlink of 145.8Ø MHz.

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All ARISS contacts are made via the Kenwood radio unless otherwise noted.

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Several of you have sent me emails asking about the RAC ARISS website and not being able to get in. That has now been changed to http://www.ariss.org/

Note that there are links to other ARISS websites from this site.

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Looking for something new to do? How about receiving DATV from the ISS?

If interested, then please go to the ARISS-EU website for complete details. Look for the buttons indicating Ham Video.

http://www.ariss-eu.org/

If you need some assistance, ARISS mentor Kerry N6IZW, might be able to provide some insight. Contact Kerry at kbanke(a)sbcglobal.net

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ARISS congratulations the following mentors who have now mentored over 100 schools:

Satoshi 7M3TJZ with 123
Gaston ON4WF with 121
Francesco IKØWGF with 118

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The webpages listed below were all reviewed for accuracy. Out of date webpages were removed and new ones have been added. If there are additional ARISS websites I need to know about, please let me know.

Note, all times are approximate. It is recommended that you do your own orbital prediction or start listening about 10 minutes before the listed time. All dates and times listed follow International Standard ISO 8601 date and time format YYYY-MM-DD HH:MM:SS

The complete schedule page has been updated as of 2016-11-18 08:00 UTC.

Here you will find a listing of all scheduled school contacts, and questions, other ISS related websites, IRLP and Echolink websites, and instructions for any contact that may be streamed live.

http://www.amsat.org/amsat/ariss/news/arissnews.rtf
http://www.amsat.org/amsat/ariss/news/arissnews.txt

Total number of ARISS ISS to earth school events is 1093.
Each school counts as 1 event.
Total number of ARISS ISS to earth school contacts is 1058.
Each contact may have multiple schools sharing the same time slot.
Total number of ARISS supported terrestrial contacts is 47.

A complete year by year breakdown of the contacts may be found in the file.
http://www.amsat.org/amsat/ariss/news/arissnews.rtf

Please feel free to contact Charlie, aj9n at amsat.org or aj9n at aol.com, if more detailed statistics are needed.

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The following US states and entities have never had an ARISS contact: Arkansas, Delaware, South Dakota, Wyoming, American Samoa, Guam, Northern Marianas Islands, and the Virgin Islands.

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QSL information may be found at:
http://www.ariss.org/qsl-cards.html

ISS callsigns: DPØISS, IRØISS, NA1SS, OR4ISS, RSØISS

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The successful school list has been updated as of 2016-11-18 08:00 UTC.

http://www.amsat.org/amsat/ariss/news/Successful_ARISS_schools.rtf

Frequency chart for packet, voice, and crossband repeater modes showing Doppler correction as of 2005-07-29 04:00 UTC
http://www.amsat.org/amsat/ariss/news/ISS_frequencies_and_Doppler_correction.rtf
[Editor's Note: Please note truncation of above address. Please use care when copy/pasting the above URL]

Listing of ARISS related magazine articles as of 2006-07-10 03:30 UTC.
http://www.amsat.org/amsat/ariss/news/ARISS_magazine_articles.rtf

Check out the Zoho reports of the ARISS contacts

https://reports.zoho.com/ZDBDataSheetView.cc?DBID=412218000000020415

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Exp. 49 on orbit
Shane Kimbrough KE5HOD
Andrei Borisenko
Sergey Ryzhikov

[ANS thanks ARISS, Charlie AJ9N and David AA4KN for the above information]

Satellite Shorts From All Over

+ W1NU, Satellite DXCC No. 3, SK

  The December 2016 issue of QST reports the passing of Vic Politi, W1NU, among its Silent Keys department article. Vic was 93. Before going into assisted living several years ago, he was on top of the DXCC Honor Roll. Vic held Satellite DXCC No. 3, earned entirely via LEO satellites. In 1992, he was AMSAT SKN's first Best Fist winner. RIP, Vic.

  [ANS thanks Ray W2RS for the above information]

+ PSAT digipeater is back on. As well as its 28.121 ten meter PSK31 uplink and 435.350 MHz downlink.

  [ANS thanks Bob WB4APR for the above information]

+ The 2016 edition of the book "Getting Started with Amateur Satellites" is once again available from the AMSAT-UK shop. http://shop.amsat-uk.org/

  [ANS thanks AMSAT-UK for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
EMike McCardel, AA8EM
aa8em at amsat dot org